SHORT COMMUNICATIONS

Validation of the name *Caladenia serotina* (Orchidaceae)

In our recent treatment (Hopper & Brown 2001) of Western Australian members of the genus *Caladenia* R. Br. (Orchidaceae), a portion of the text was omitted at the top of page 145. Owing to this printing error, the new species *Caladenia serotina* was not validly published as most of its type citation was missing. The full description for this species is reproduced below to provide a valid publication for it. *Caladenia serotina* was illustrated in Figure 28A–F and mapped in Figure 27C of Hopper & Brown (2001).

Caladenia serotina Hopper & A.P. Br., *sp. nov.*

A *Caladenia longicauda* Lindl. floribus plus coloratis petalis sepalisque saepissime rigide ferentibus et postea florescentia differt.

Typus: c. 16 km north of Manjimup on South Western Highway, 34°05'S, 116°11'E, Western Australia, 13 December 1985, *S.D. Hopper* 4765 (*holo:* PERTH 00909106; *iso:* AD!, CBG!, K!, MEL!, NSW!, PERTH 02416328).

Illustrations. N. Hoffman & A. Brown, Orchids of South-West Australia, 1st edn, p. 68, [as *Caladenia* sp.] (1984), 2nd edn, p. 70 (1992) and rev. 2nd edn with suppl., p. 70 (1998).

Plant solitary or in small clumps. *Leaf* erect, linear, 10–20 cm x 4–20 mm, pale green, basal third usually irregularly blotched with red-purple. *Scape* 25–60 cm tall. *Flowers* 1–3(4), *c.* 8–10 cm across, white or creamy-yellow to maroon with maroon markings on calli and pale maroon to pink lines on the back of petals and sepals; floral odour faintly to strongly sweet. *Sepals and petals* stiffly held, linear-lanceolate in basal 1/5–1/3, then abruptly narrowing to a densely glandular long-acuminate filamentous apex lacking a tumescent osmophore; glandular hairs elongate, cylindrical. *Dorsal sepal* erect to curving forward near apex, 5.5–10 cm x 2.5–3 mm. *Lateral sepals* spreading, obliquely downcurved, 5.5–10 cm x 3–6 mm. *Petals* horizontal basally, then downcurved, 4.5–8 cm x 2–4 mm. *Labellum* obscurely 3-lobed, uniformly coloured except basal lamina sometimes with pale maroon radiating stripes, stiffly articulate on a claw *c.* 2 mm wide; lamina narrowly to broadly cordate in outline when flattened, 16–30 x 10–14 mm, basal third curving from erect to horizontal, middle third nearly horizontal, apical third sharply recurved, margins at widest point moderately curved upwards and terminated by obliquely to vertically ascending calli; lateral lobes erect with entire margins within 4 mm of the claw, becoming fimbriate with slender acuminate narrowly fusiform pale to dark maroon sometimes white-tipped calli to 7 mm long which are abruptly decrescent near midlobe; midlobe margins with short broad forward-facing obtuse calli decrescent towards the apex. *Lamina calli* in 4 rows (sometimes towards apex up to 8, or 4 or 2 rows, or irregularly aggregated) extending at least 3/4 the length of the labellum, pale to dark maroon, golf stick-shaped, the longest *c.* 2 mm tall, decrescent towards apex and becoming sessile. *Column* 13–22 x 7–10 mm, winged, greenish yellow with maroon blotches and suffusions. *Anther c.* 3.5–4.5 x 3.5–4.5 mm, maroon with yellowish suffusions. *Pollinia c.* 3–4 mm long, yellow. *Stigma c.* 3–4 mm wide, yellow-green. *Capsule* not seen.

Selected specimens examined. WESTERN AUSTRALIA: Byford, S of Armadale, 1 Nov. 1968, *Byrne* 2 (PERTH 00290475); N of Dinninup, Nov. 1983, *E. Chapman s.n.* (CANB, PERTH 00245577); 2.5 km SW of Augusta, *c.* 1 km S of Golf Course road, 34°20'S, 115°08'E, 26 Oct. 1984, *E. Chapman s.n.* (PERTH 00404349); just NW of Kulikup, 33°50'S, 116°40'E, 3 Nov. 1977, *A.S. George* 15046 (PERTH 00290858); N side of Mt Manypeaks, 40 km E of Albany, 12 Dec. 1986, *G.J. Keighery* 9021 (PERTH 00855170); Wright Rd, 1 km N of Brockman Highway, *c.* 15 km E of Bussell Highway, 34°09'S, 115°14'E, 11 Dec. 1985, *S.D. Hopper* 4745 (PERTH 00907561); Muir Highway, 0.8 km W of Thomsons Rd turnoff, *c.* 50 km ESE of Manjimup, 34°27'S, 116°38'E, 13 Dec. 1985, *S.D. Hopper* 4763 (PERTH 00909114); Chespeake Rd, 1 km E of Shannon River Bridge, *c.* 35 km NW of Walpole, 34°51'S, 116°23'E, 8 Dec. 1987, *S.D. Hopper* 6326 (PERTH 01191934); off Muir Highway, N side, *c.* 400 m W from Thompson Rd, 4 Dec. 1990, *W. Jackson* BJ192 (PERTH 01700006); Dinninup, E of Boyup Brook, 18 Nov. 1970, *C. Sumner s.n.* (PERTH 00335932).

Distribution and habitat. Ranges from the vicinity of Perth south to Augusta and eastwards to Manypeaks. Occurs in winter-wet swamps or adjacent to creeks at the northern end of its range, but is widespread in most habitats at the southern end. These include coastal heath, *Banksia* woodland, paperbark (*Melaleuca*) swamps, granite outcrop scrub, Jarrah/Marri (*Eucalyptus marginata*/*Corymbia calophylla*) forest, and Karri (*Eucalyptus diversicolor*) forest. Soils vary from sands to lateritic loams.

Flowering period. November to January. Flowers earlier near Perth than in southern localities.

Etymology. Named from the Latin *serotinus* (late-coming), alluding to the late flowering season of the species.

Notes. Caladenia serotina is a sporadically distributed but locally common species that may grow with or adjacent to earlier-flowering members of the *C. longicauda* Lindl. complex including *C. longicauda*, *C. christineae* Hopper & A.P. Br. and *C. harringtoniae* Hopper & A.P. Br. The only related species with which *C. serotina* grows and which is similarly late-flowering is *C. pholcoidea* Hopper & A.P. Br. This differs in its much smaller labellum and its longer narrower pale-yellow petals and sepals. *C. serotina* tends to flower in greater profusion after fire. It hybridizes occasionally with *C. radiata* Nicholls and with *C. corynephora* A.S. George to produce the hybrid *C.* x *aestantha* Hopper & A.P. Br.

Reference

Hopper, S.D. & Brown, A.P. (2001). Contributions to Western Australian Orchidology: 2. New taxa and circumscriptions in *Caladenia*. *Nuytsia* 14: 27–307.

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